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<110> Petrukhin, Konstantin
 Caskey, C. Thomas
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 Metzker, Michael L.

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<212> PRT

<213> Homo Sapiens

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<212> PRT

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Ala	Trp	Tyr	Ile	Gly	Phe	Leu	Val	Leu	Ile	Phe	Ala	Ser	Phe	Leu	Val	
				245					250					255		
Tyr	Leu	Ala	Glu	Lys	Asp	Ala	Asn	Ser	Asp	Phe	Ser	Ser	Tyr	Ala	Asp	
			260				265						270			
Ser	Leu	Trp	Trp	Gly	Thr	Ile	Thr	Leu	Thr	Thr	Ile	Gly	Tyr	Gly	Asp	
		275					280					285				
Lys	Thr	Pro	His	Thr	Trp	Leu	Gly	Arg	Val	Leu	Ala	Ala	Gly	Phe	Ala	
		290				295					300					
Leu	Leu	Gly	Ile	Ser	Phe	Phe	Ala	Leu	Pro	Ala	Gly	Ile	Leu	Gly	Ser	
305					310					315					320	
Gly	Phe	Ala	Leu	Lys	Val	Gln	Glu	Gln	His	Arg	Gln	Lys	His	Phe	Glu	
				325					330					335		
Lys	Arg	Arg	Met	Pro	Ala	Ala	Asn	Leu	Ile	Gln	Ala	Ala	Trp	Arg	Leu	
			340				345						350			
Tyr	Ser	Thr	Asp	Met	Ser	Arg	Ala	Tyr	Leu	Thr	Ala	Thr	Trp	Tyr	Tyr	
		355					360					365				
Tyr	Asp	Ser	Ile	Leu	Pro	Ser	Phe	Arg	Glu	Leu	Ala	Leu	Leu	Phe	Glu	
		370				375					380					
His	Val	Gln	Arg	Ala	Arg	Asn	Gly	Gly	Leu	Arg	Pro	Leu	Glu	Val	Arg	
385					390					395					400	
Arg	Ala	Pro	Val	Pro	Asp	Gly	Ala	Pro	Ser	Arg	Tyr	Pro	Pro	Val	Ala	
				405					410					415		
Thr	Cys	His	Arg	Pro	Gly	Ser	Thr	Ser	Phe	Cys	Pro	Gly	Glu	Ser	Ser	
			420					425					430			
Arg	Met	Gly	Ile	Lys	Asp	Arg	Ile	Arg	Met	Gly	Ser	Ser	Gln	Arg	Arg	
		435					440					445				
Thr	Gly	Pro	Ser	Lys	Gln	Gln	Leu	Ala	Pro	Pro	Thr	Met	Pro	Thr	Ser	
		450				455						460				
Pro	Ser	Ser	Glu	Gln	Val	Gly	Glu	Ala	Thr	Ser	Pro	Thr	Lys	Val	Gln	
465					470					475					480	
Lys	Ser	Trp	Ser	Phe	Asn	Asp	Arg	Thr	Arg	Phe	Arg	Ala	Ser	Leu	Arg	
				485					490					495		
Leu	Lys	Pro	Arg	Thr	Ser	Ala	Glu	Asp	Ala	Pro	Ser	Glu	Glu	Val	Ala	
			500					505					510			
Glu	Glu	Lys	Ser	Tyr	Gln	Cys	Glu	Leu	Thr	Val	Asp	Asp	Ile	Met	Pro	
		515					520					525				
Ala	Val	Lys	Thr	Val	Ile	Arg	Ser	Ile	Arg	Ile	Leu	Lys	Phe	Leu	Val	
		530				535					540					

Ala Lys Arg Lys Phe Lys Glu Thr Leu Arg Pro Tyr Asp Val Lys Asp
 545 550 555 560
 Val Ile Glu Gln Tyr Ser Ala Gly His Leu Asp Met Leu Gly Arg Ile
 565 570 575
 Lys Ser Leu Gln Thr Arg Val Asp Gln Ile Val Gly Arg Gly Pro Gly
 580 585 590
 Asp Arg Lys Ala Arg Glu Lys Gly Asp Lys Gly Pro Ser Asp Ala Glu
 595 600 605
 Val Val Asp Glu Ile Ser Met Met Gly Arg Val Val Lys Val Glu Lys
 610 615 620
 Gln Val Gln Ser Ile Glu His Lys Leu Asp Leu Leu Leu Gly Phe Tyr
 625 630 635 640
 Ser Arg Cys Leu Arg Ser Gly Thr Ser Ala Ser Leu Gly Ala Val Gln
 645 650 655
 Val Pro Leu Phe Asp Pro Asp Ile Thr Ser Asp Tyr His Ser Pro Val
 660 665 670
 Asp His Glu Asp Ile Ser Val Ser Ala Gln Thr Leu Ser Ile Ser Arg
 675 680 685
 Ser Val Ser Thr Asn Met Asp
 690 695

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 <211> 423
 <212> PRT
 <213> Homo Sapiens

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 Asn Tyr Asn Val Leu Glu Arg Pro Arg Gly Trp Ala Phe Tyr His Phe
 20 25 30
 Phe Leu Leu Val Phe Cys Leu Leu Ser Val Ser Thr Ile Glu His Leu
 35 40 45
 Ala Cys Leu Leu Ile Leu Glu Phe Val Met Ile Val Val Phe Gly Leu
 50 55 60
 Glu Ile Arg Trp Ser Ala Gly Cys Cys Cys Arg Tyr Arg Gly Trp Gln
 65 70 75 80
 Gly Arg Arg Phe Ala Arg Lys Pro Phe Cys Val Ile Asp Ile Val Ala
 85 90 95
 Ser Ala Val Ala Thr Gln Gly Asn Ile Phe Ala Thr Ser Ala Leu Arg
 100 105 110
 Ser Arg Phe Leu Gln Ile Leu Arg Met Val Arg Met Asp Arg Arg Gly
 115 120 125
 Gly Thr Trp Lys Leu Leu Gly Ser Val Val Tyr Ala His Ser Lys Glu
 130 135 140
 Leu Ile Thr Ala Trp Tyr Ile Gly Phe Leu Val Leu Ile Phe Ser Phe
 145 150 155 160
 Leu Val Tyr Leu Glu Lys Asp Ala Asn Phe Ser Tyr Ala Asp Leu Trp
 165 170 175
 Trp Gly Thr Ile Thr Leu Thr Thr Ile Gly Tyr Gly Asp Lys Thr Pro
 180 185 190
 Thr Trp Leu Gly Arg Leu Ala Gly Phe Ala Leu Leu Gly Ile Ser Phe
 195 200 205
 Phe Ala Leu Pro Ala Gly Ile Leu Gly Ser Gly Phe Ala Leu Lys Val
 210 215 220
 Gln Glu Gln His Arg Gln Lys His Phe Glu Lys Arg Arg Pro Ala Ala

225					230					235					240
Asn	Leu	Ile	Gln	Trp	Arg	Tyr	Asp	Ser	Ala	Thr	Trp	Leu	Ala	Leu	Thr
				245					250					255	
Cys	Pro	Thr	Gly	Glu	Ser	Ser	Lys	Arg	Arg	Met	Ser	Arg	Gly	Ser	Lys
			260					265					270		
Ala	Ser	Pro	Ser	Glu	Ser	Pro	Thr	Lys	Val	Gln	Lys	Ser	Trp	Ser	Phe
		275					280					285			
Asn	Asp	Arg	Thr	Arg	Phe	Arg	Ser	Leu	Arg	Leu	Lys	Pro	Ala	Ala	Val
	290					295					300				
Glu	Lys	Gln	Cys	Val	Asp	Pro	Lys	Thr	Val	Ile	Arg	Ile	Arg	Ile	Lys
305					310					315					320
Phe	Val	Ala	Lys	Arg	Lys	Phe	Lys	Glu	Thr	Leu	Arg	Pro	Tyr	Asp	Val
			325						330					335	
Lys	Asp	Val	Ile	Glu	Gln	Tyr	Ser	Ala	Gly	His	Leu	Asp	Met	Leu	Arg
			340					345					350		
Ile	Lys	Ser	Leu	Gln	Thr	Arg	Val	Asp	Gln	Ile	Gly	Gly	Asp	Lys	Arg
		355					360					365			
Glu	Lys	Glu	Asp	Ser	Met	Gly	Arg	Val	Val	Lys	Val	Glu	Lys	Gln	Val
	370					375					380				
Gln	Ser	Ile	Glu	Lys	Leu	Asp	Leu	Leu	Tyr	Leu	Arg	Gly	Ser	Ala	Ser
385					390					395					400
Leu	Gln	Pro	Phe	Thr	Ser	Asp	Tyr	Ser	Pro	Val	Asp	Asp	Ser	Ser	Ala
			405						410					415	
Gln	Ser	Ser	Arg	Ser	Ser	Asn									
			420												

<210> 6

<211> 514

<212> PRT

<213> Homo Sapiens

<400> 6

Met	Val	Gln	Lys	Ser	Arg	Asn	Gly	Gly	Val	Tyr	Pro	Gly	Pro	Ser	Gly
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Glu	Lys	Lys	Leu	Lys	Val	Gly	Phe	Val	Gly	Leu	Asp	Pro	Gly	Ala	Pro
			20					25					30		
Asp	Ser	Thr	Arg	Asp	Gly	Ala	Leu	Ile	Ala	Gly	Ser	Glu	Ala	Pro	
		35				40					45				
Lys	Arg	Gly	Ser	Ile	Leu	Ser	Lys	Pro	Arg	Ala	Gly	Gly	Ala	Gly	Ala
	50					55					60				
Gly	Lys	Pro	Pro	Lys	Arg	Asn	Ala	Phe	Tyr	Arg	Lys	Leu	Gln	Asn	Phe
65				70					75					80	
Leu	Tyr	Asn	Val	Leu	Glu	Arg	Pro	Arg	Gly	Trp	Ala	Phe	Ile	Tyr	His
			85					90					95		
Ala	Tyr	Val	Phe	Leu	Leu	Val	Phe	Ser	Cys	Leu	Val	Leu	Ser	Val	Phe
		100						105					110		
Ser	Thr	Ile	Lys	Glu	Tyr	Glu	Lys	Ser	Ser	Glu	Gly	Ala	Leu	Tyr	Ile
		115					120					125			
Leu	Glu	Ile	Val	Thr	Ile	Val	Val	Phe	Gly	Val	Glu	Tyr	Phe	Val	Arg
	130					135					140				
Ile	Trp	Ala	Ala	Gly	Cys	Cys	Cys	Arg	Tyr	Arg	Gly	Trp	Arg	Gly	Arg
145					150					155					160
Leu	Lys	Phe	Ala	Arg	Lys	Pro	Phe	Cys	Val	Ile	Asp	Ile	Met	Val	Leu
			165						170				175		
Ile	Ala	Ser	Ile	Ala	Val	Leu	Ala	Ala	Gly	Ser	Gln	Gly	Asn	Val	Phe
			180					185					190		

Ala Thr Ser Ala Leu Arg Ser Leu Arg Phe Leu Gln Ile Leu Arg Met
 195 200 205
 Ile Arg Met Asp Arg Arg Gly Thr Trp Lys Leu Leu Gly Ser Val
 210 215 220
 Val Tyr Ala His Ser Lys Glu Leu Val Thr Ala Trp Tyr Ile Gly Phe
 225 230 235 240
 Leu Cys Leu Ile Leu Ala Ser Phe Leu Val Tyr Leu Ala Glu Lys Gly
 245 250 255
 Glu Asn Asp His Phe Asp Thr Tyr Ala Asp Ala Leu Trp Trp Gly Leu
 260 265 270
 Ile Thr Leu Thr Thr Ile Gly Tyr Gly Asp Lys Tyr Pro Gln Thr Trp
 275 280 285
 Asn Gly Arg Leu Leu Ala Ala Thr Phe Thr Leu Ile Gly Val Ser Phe
 290 295 300
 Phe Ala Leu Pro Ala Gly Ile Leu Gly Ser Gly Phe Ala Leu Lys Val
 305 310 315 320
 Gln Glu Gln His Arg Gln Lys His Phe Glu Lys Arg Arg Asn Pro Ala
 325 330 335
 Ala Gly Leu Ile Gln Ser Ala Trp Arg Phe Tyr Ala Thr Asn Leu Ser
 340 345 350
 Arg Thr Asp Leu His Ser Thr Trp Gln Tyr Tyr Glu Arg Thr Val Thr
 355 360 365
 Val Pro Met Tyr Arg Leu Ile Pro Pro Leu Asn Gln Leu Glu Leu Leu
 370 375 380
 Arg Asn Leu Lys Ser Lys Ser Gly Leu Ala Phe Arg Lys Asp Pro Pro
 385 390 395 400
 Pro Glu Pro Ser Pro Ser Gln Lys Val Ser Leu Lys Asp Arg Val Phe
 405 410 415
 Ser Ser Pro Arg Gly Val Ala Ala Lys Gly Lys Gly Ser Pro Gln Ala
 420 425 430
 Gln Thr Val Arg Arg Ser Pro Ser Ala Asp Gln Ser Leu Glu Asp Ser
 435 440 445
 Pro Ser Lys Val Pro Lys Ser Trp Ser Phe Gly Asp Arg Ser Arg Ala
 450 455 460
 Arg Gln Ala Phe Arg Ile Lys Gly Ala Ala Ser Arg Gln Asn Ser Glu
 465 470 475 480
 Glu Ala Ser Leu Pro Gly Glu Asp Ile Val Asp Asp Lys Ser Cys Pro
 485 490 495
 Cys Glu Phe Val Thr Glu Asp Leu Thr Pro Gly Leu Lys Val Ser Ile
 500 505 510
 Arg Ala

<210> 7
 <211> 521
 <212> PRT
 <213> Homo Sapiens

<400> 7
 Met Gly Leu Lys Ala Arg Arg Ala Ala Gly Ala Ala Gly Gly Gly Gly
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 Asp Gly Gly Gly Gly Gly Gly Gly Ala Ala Asn Pro Ala Gly Gly Asp
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 Ala Ala Ala Ala Gly Asp Glu Glu Arg Lys Val Gly Leu Ala Pro Gly
 35 40 45
 Asp Val Glu Gln Val Thr Leu Ala Leu Gly Ala Gly Ala Asp Lys Asp

50		55		60
Gly Thr Leu Leu Leu Glu Gly Gly Gly Arg Asp Glu Gly Gln Arg Arg				
65		70		75
Thr Pro Gln Gly Ile Gly Leu Leu Ala Lys Thr Pro Leu Ser Arg Pro				
	85		90	95
Val Lys Arg Asn Asn Ala Lys Tyr Arg Arg Ile Gln Thr Leu Ile Tyr				
	100		105	110
Asp Ala Leu Glu Arg Pro Arg Gly Trp Ala Leu Leu Tyr His Ala Leu				
	115		120	125
Val Phe Leu Ile Val Leu Gly Cys Leu Ile Leu Ala Val Leu Thr Thr				
	130		135	140
Phe Lys Glu Tyr Glu Thr Val Ser Gly Asp Trp Leu Leu Leu Leu Glu				
145		150		155
Thr Phe Ala Ile Phe Ile Phe Gly Ala Glu Phe Ala Leu Arg Ile Trp				
	165		170	175
Ala Ala Gly Cys Cys Cys Arg Tyr Lys Gly Trp Arg Gly Arg Leu Lys				
	180		185	190
Phe Ala Arg Lys Pro Leu Cys Met Leu Asp Ile Phe Val Leu Ile Ala				
	195		200	205
Ser Val Pro Val Val Ala Val Gly Asn Gln Gly Asn Val Leu Ala Thr				
	210		215	220
Ser Leu Arg Ser Leu Arg Phe Leu Gln Ile Leu Arg Met Leu Arg Met				
225		230		235
Asp Arg Arg Gly Gly Thr Trp Lys Leu Leu Gly Ser Ala Ile Cys Ala				
	245		250	255
His Ser Lys Glu Leu Ile Thr Ala Trp Tyr Ile Gly Phe Leu Thr Leu				
	260		265	270
Ile Leu Ser Ser Phe Leu Val Tyr Leu Val Glu Lys Asp Val Pro Glu				
	275		280	285
Val Asp Ala Gln Gly Glu Glu Met Lys Glu Glu Phe Glu Thr Tyr Ala				
	290		295	300
Asp Ala Leu Trp Trp Gly Leu Ile Thr Leu Ala Thr Ile Gly Tyr Gly				
305		310		315
Asp Lys Thr Pro Lys Thr Trp Glu Gly Arg Leu Ile Ala Ala Thr Phe				
	325		330	335
Ser Leu Ile Gly Val Ser Phe Phe Ala Leu Pro Ala Gly Ile Leu Gly				
	340		345	350
Ser Gly Leu Ala Leu Lys Val Gln Glu Gln His Arg Gln Lys His Phe				
	355		360	365
Glu Lys Arg Arg Lys Pro Ala Glu Leu Ile Gln Ala Ala Trp Arg				
	370		375	380
Tyr Tyr Ala Thr Asn Pro Asn Arg Ile Asp Leu Val Ala Thr Trp Arg				
385		390		395
Phe Tyr Glu Ser Val Val Ser Phe Pro Phe Phe Arg Lys Glu Gln Leu				
	405		410	415
Glu Ala Ala Ser Ser Gln Lys Leu Gly Leu Leu Asp Arg Val Arg Leu				
	420		425	430
Ser Asn Pro Arg Gly Ser Asn Thr Lys Gly Lys Leu Phe Thr Pro Leu				
	435		440	445
Asn Val Asp Ala Ile Glu Glu Ser Pro Ser Lys Glu Pro Lys Pro Val				
	450		455	460
Gly Leu Asn Asn Lys Glu Arg Phe Arg Thr Ala Phe Arg Met Lys Ala				
465		470		475
Tyr Ala Phe Trp Gln Ser Ser Glu Asp Ala Gly Thr Gly Asp Pro Met				
	485		490	495
Ala Glu Asp Arg Gly Tyr Gly Asn Asp Phe Pro Ile Glu Asp Met Ile				
	500		505	510

Pro Thr Leu Lys Ala Ala Ile Arg Ala
 515 520

<210> 8
 <211> 142
 <212> PRT
 <213> Homo Sapiens

<400> 8
 Arg Gln Tyr Leu Glu Arg Pro Gly Trp Tyr His Phe Leu Val Cys Leu
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 Val Thr Leu Glu Phe Gly Glu Arg Trp Ala Gly Cys Tyr Gly Gly Arg
 20 25 30
 Phe Ala Arg Lys Pro Asp Val Ala Ser Val Gly Ala Thr Ser Arg Arg
 35 40 45
 Phe Leu Gln Ile Leu Arg Met Asp Arg Gly Gly Thr Trp Leu Leu Gly
 50 55 60
 Ser His Glu Leu Thr Tyr Ile Gly Phe Leu Leu Ile Ser Val Tyr Leu
 65 70 75 80
 Glu Lys Phe Tyr Ala Asp Leu Trp Trp Gly Thr Thr Ile Gly Tyr Gly
 85 90 95
 Asp Lys Pro Thr Trp Gly Phe Ser Phe Phe Ala Leu Pro Ala Gly Ile
 100 105 110
 Leu Gly Ser Gly Ala Leu Lys Val Gln Arg Gln Lys His Phe Ala Ala
 115 120 125
 Leu Ile Gln Trp Arg Tyr Thr Trp Leu Ser Lys Glu Ala Ile
 130 135 140

<210> 9
 <211> 17
 <212> DNA
 <213> Homo Sapiens

<400> 9
 gggggcccg atgagcc 17

<210> 10
 <211> 21
 <212> DNA
 <213> Homo Sapiens

<400> 10
 gaagaactta tttcagtttg a 21

<210> 11
 <211> 25
 <212> DNA
 <213> Homo Sapiens

<400> 11
 ttttctcctt gtctttgggtt gcttg 25

<210> 12
 <211> 27
 <212> DNA

<213> Homo Sapiens
 <400> 12
 ccatccta at acgactcact atagggc 27
 <210> 13
 <211> 23
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 <400> 13
 cctcaagttg cctcttgatc ctg 23
 <210> 14
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 <400> 14
 actcactata gggctcgagc ggc 23
 <210> 15
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 caggatcaag aggcaacttg agg 23
 <210> 16
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 <400> 16
 ccaattttgt gtgctcaggg atggtaga 28
 <210> 17
 <211> 18
 <212> DNA
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 <400> 17
 gacacagccc ttggcact 18
 <210> 18
 <211> 26
 <212> DNA
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 <400> 18
 gatgatgtat atgatgaaaa aggatg 26
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 <211> 23
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 <213> Homo Sapiens

<400> 19 ctgatagctc gaatgacagt ttt	23
<210> 20 <211> 26 <212> DNA <213> Homo Sapiens	
<400> 20 aagtgggtggg gtgaggtctt ccaactg	26
<210> 21 <211> 24 <212> DNA <213> Homo Sapiens	
<400> 21 agaattatga aatttcatgt tgca	24
<210> 22 <211> 23 <212> DNA <213> Homo Sapiens	
<400> 22 aaacggaagt ttaaggaaac att	23
<210> 23 <211> 23 <212> DNA <213> Homo Sapiens	
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<210> 24 <211> 21 <212> DNA <213> Homo Sapiens	
<400> 24 tacacaacat gtccagatga c	21
<210> 25 <211> 22 <212> DNA <213> Homo Sapiens	
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<210> 26 <211> 23 <212> DNA <213> Homo Sapiens	

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<210> 30 <211> 22 <212> DNA <213> Homo Sapiens	
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<210> 31 <211> 20 <212> DNA <213> Homo Sapiens	
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<210> 32 <211> 20 <212> DNA <213> Homo Sapiens	
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<210> 33 <211> 20 <212> DNA <213> Homo Sapiens	
<400> 33	

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<400> 34
cccaggcttt acactttatg cttcc                            25

<210> 35
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<212> DNA
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<400> 35
ccagggtttt cccagtcacg ac                                22

<210> 36
<211> 25
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<400> 36
ttgtgtggaa ttgtgagcgg ataac                            25

<210> 37
<211> 20
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<400> 37
ctttctttgc acttcctgcc                                    20

<210> 38
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<400> 38
aacacagaag ggctttcgag                                    20

<210> 39
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cagtcttcct tgccatcctc                                    20

<210> 40
<211> 20
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<213> Homo Sapiens

<400> 40
gcagcccaa caactttaca                                    20

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<210> 41
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 <213> Homo Sapiens

<400> 41
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<210> 42
 <211> 20
 <212> DNA
 <213> Homo Sapiens

<400> 42
 gccagaaact ctgcacccta

20

<210> 43
 <211> 421
 <212> PRT
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<400> 43
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 Asn Phe Leu Glu Arg Pro Thr Gly Trp Lys Cys Phe Val Tyr His Phe
 20 25 30
 Ala Val Phe Leu Ile Val Leu Val Cys Leu Ile Phe Ser Val Leu Ser
 35 40 45
 Thr Ile Glu Gln Tyr Ala Ala Leu Ala Thr Gly Thr Leu Phe Trp Met
 50 55 60
 Glu Ile Val Leu Val Val Phe Phe Gly Thr Glu Tyr Val Val Arg Leu
 65 70 75 80
 Trp Ser Ala Gly Cys Arg Ser Lys Tyr Val Gly Leu Trp Gly Arg Leu
 85 90 95
 Arg Phe Ala Arg Lys Pro Ile Ser Ile Ile Asp Leu Ile Val Val Val
 100 105 110
 Ala Ser Met Val Val Leu Cys Val Gly Ser Lys Gly Gln Val Phe Ala
 115 120 125
 Thr Ser Ala Ile Arg Gly Ile Arg Phe Leu Gln Ile Leu Arg Met Leu
 130 135 140
 His Val Asp Arg Gln Gly Gly Thr Trp Arg Leu Leu Gly Ser Val Val
 145 150 155 160
 Phe Ile His Arg Gln Glu Leu Ile Thr Thr Leu Tyr Ile Gly Phe Leu
 165 170 175
 Gly Leu Ile Phe Ser Ser Tyr Phe Val Tyr Leu Ala Glu Lys Asp Ala
 180 185 190
 Val Asn Glu Ser Gly Arg Val Glu Phe Gly Ser Tyr Ala Asp Ala Leu
 195 200 205
 Trp Trp Gly Val Val Thr Val Thr Thr Ile Gly Tyr Gly Asp Lys Val
 210 215 220
 Pro Gln Thr Trp Val Gly Lys Thr Ile Ala Ser Cys Phe Ser Val Phe
 225 230 235 240
 Ala Ile Ser Phe Phe Ala Leu Pro Ala Gly Ile Leu Gly Ser Gly Phe
 245 250 255
 Ala Leu Lys Val Gln Gln Lys Gln Arg Gln Lys His Phe Asn Arg Gln
 260 265 270

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Ile Pro Ala Ala Ala Ser Leu Ile Gln Thr Ala Trp Arg Cys Tyr Ala
      275                      280                      285
Ala Glu Asn Pro Asp Ser Ser Thr Trp Lys Ile Tyr Ile Arg Lys Ala
      290                      295                      300
Pro Arg Ser His Thr Leu Leu Ser Pro Ser Pro Lys Pro Lys Lys Ser
305                      310                      315                      320
Val Val Val Lys Lys Lys Lys Phe Lys Leu Asp Lys Asp Asn Gly Val
      325                      330                      335
Thr Pro Gly Glu Lys Met Leu Thr Val Pro His Ile Thr Cys Asp Pro
      340                      345                      350
Pro Glu Glu Arg Arg Leu Asp His Phe Ser Val Asp Gly Tyr Asp Ser
      355                      360                      365
Ser Val Arg Lys Ser Pro Thr Leu Leu Glu Val Ser Met Pro His Phe
      370                      375                      380
Met Arg Thr Asn Ser Phe Ala Glu Asp Leu Asp Leu Glu Gly Glu Thr
385                      390                      395                      400
Leu Leu Thr Pro Ile Thr His Ile Ser Gln Leu Arg Glu His His Arg
      405                      410                      415
Ala Thr Ile Lys Val
      420

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